UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,178	04/03/2001	Naoki Oguchi	FUJY 18.546	1676

26304   7590   10/18/2007

KATTEN MUCHIN ROSENMAN LLP
575 MADISON AVENUE
NEW YORK, NY 10022-2585

EXAMINER
BRUCKART, BENJAMIN R

ART UNIT	PAPER NUMBER
2155	

MAIL DATE	DELIVERY MODE
10/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
Office Action Summary	09/825,178	OGUCHI, NAOKI
	Examiner	Art Unit	
	Benjamin R. Bruckart	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>06 September 2007</u>.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-3</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-3</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some * c)☐ None of:

      1.☒ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

Detailed Action

Status of Claims:

Claims 1-3 are pending in this Office Action.

Claim 1 is amended.

Response to Arguments

Applicant's arguments filed in the amendment filed 9/6/07, have been considered but are

moot in view of new grounds of rejection. The reasons are set forth below.

<u>Applicant's invention as claimed</u>:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable by U.S. Patent No. 6,888,837 by Cunningham et al (Applicants IDS) in view of U.S. Patent No. 7,016,980 by Mayer et al.

Regarding claim 1, the Cunningham reference teaches a communication data relay system for

relaying between two or more domains each configured by one or more networks, a relay source

domain having routing information to a relay destination domain (Cunningham: col. 3, lines 47-

56), comprising:

two or more interface modules for accessing said networks (Cunningham: col. 10, lines

56-65; Fig. 11);

a domain definition module for defining a domain configured by said one or more networks, said domain definition module storing an interface identifier for identifying an interface module and a domain identifier for identifying said domain corresponding to said interface module identified by said interface identifier (Cunningham: col. 5, lines 42-61; Figures 2a-2c);

an inter-domain communication definition module for defining connectibility between said two or more domains defined by said domain definition module, said connectibility based on a combination of the following parameters: a source/destination domain identifier, an inter-domain communicability field, and a translation rule (Cunningham: col. 7, lines 20- col. 8, line 26; Fig. 2d);

a routing information storage module for storing domain routing information corresponding to each of said tow or more domains defined by said domain definition module (Cunningham: Figs 2a-2c), said domain routing information including a destination network address to which a packet is sent, a next-hop gateway address to which said packet is relayed, an output interface identifier for identifying the interface module to which said packet is output, and said domain identifier defined in said domain definition module for identifying the correspondence between said domain routing information and each of said two or more domains defined by said domain definition module (Cunningham: col. 5, lines 62- col. 6, line 15; Fig. 2d);

a relay control unit for controlling relay of the communication data, wherein said relay control unit controlling the relay of the communication data with reference to said domain routing information corresponding to the domain concerned in the case of a relay within said same domain (Cunningham: col. 5, lines 59-61; Fig. 2d, tag 238; route to same domain),

The Cunningham reference fails to teach judging whether communication is permitted.

However, the Mayer reference teaches:

and said relay control unit judging whether communication between the domains is permitted or not for the relay on the basis of said inter-domain communicability field which is held in said inter-domain communication definition module and defined for each combination of source domain identifier and destination domain identifier (Mayer: col. 5, lines 17-38), in the case of a relay between the domains different from each other so as to relay the communication

data between the domains different from each other if communication is judged to be permitted (Mayer: col. 1, lines 22-43; col. 5, lines 17-38)

wherein, when communication is judged to be permitted, the relay control unit translates address information included in the communication data on the basis of said translation rule which is held in said inter-domain communication definition module and defined for each combination of source domain identifier and destination identifier, registers, in an address translation table, mapping information indicating a mapping of said address information before being translated to said address information after being translated, and relays the communication data between the domains different from each other on the basis of said mapping information registered in said address translation table (Mayer: col. 1, lines 22-43; col. 3, lines 50-65; col. 5, lines 20-38) in order to implement security and cost effective measures of packet filtering (Mayer: col. 2, lines 51-67).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of domain communication as taught by Cunningham to include access control as taught by Mayer in order to implement security and cost effective measures of packet filtering (Mayer: col. 2, lines 51-67).

Regarding claim 2, a communication data relay system according to claim 1, further comprising a destination address search module for the relay destination domain,

wherein if the relay source domain does not have routing information to the relay destination domain, said destination address search module searches a destination address to the relay destination domain in response to a request from a source communication device within the relay source domain, and notifies said source communication device of a relay address within the relay source domain that corresponds to the destination address (Cunningham: col. 7, lines 21-col. 9, line 42; DNS name resolution to get global address), and

said relay control unit relays the communication data addressed to the relay address to the destination address in the relay destination domain (Cunningham: col. 6, lines 10-40).

Regarding claim 3, a communication data relay system according to claim 1, further comprising a routing control information storage module to the domain to which a communication data processing device for processing the communication data is connected,

wherein said relay control unit, when controlling the relay of the communication data, causes said communication data processing device to process the communication data, and relays the thus processed communication data (Cunningham: col. 16, lines 27-54; Fig. 11).

Prior Art

U.S. Patent No. 7,272,625 by Hannel et al teaches restricting communications (col. 47, lines 45-60) and

U.S. Patent Publication No. 2001/0014912 by Segal teaches allowable senders and receiver lists stored in a router apparatus (page 2, para 18, 22).

REMARKS

Applicant has amended claim 1 to include limitations directed to processing based on whether permitted communication.
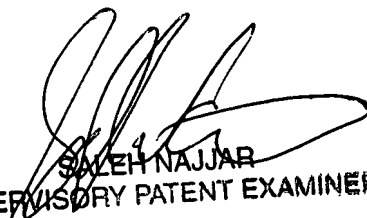
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R. Bruckart whose telephone number is (571) 272-3982. The examiner can normally be reached on 9:00-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Benjamin R Bruckart
Examiner
Art Unit 2155
/Benjamin R Bruckart/

SALEH NAJJAR
SUPERVISORY PATENT EXAMINER